
Product Data Sheet

Product Name: VPS24 Human
 Cat. No.: GP24994
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Charged multivesicular body protein 3; Chromatin-modifying protein 3; Neuroendocrine differentiation factor; Vacuolar protein sorting-associated protein 24; hVps24; CHMP3; CGI149; NEDF; VPS24; CGI-149.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGLFGKTQEK PPKELVNEWS LKIRKEMRVV DRQIRDIQRE EEKVKRSVKD AAKKGQKDVC IVLAKEMIRS RKA VSKLYAS KAHMNSVLMG MKNQLAVLRV AGSLQKSTEV MKAMQSLVKI PEIQATMREL SKEMMKAGII EEMLEDTFES MDDQEEMEEE AEMEIDRILF EITAGALGKA PSKVTDALPE PEPPGAMAAS EDEEEEEEEAL EAMQSRLATL RS.		
Formulation	VPS24 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

Charged multivesicular body protein 3 (VPS24/CHMP3) is a member of the vacuolar sorting protein family and function as chromatin modifying proteins. VPS24 links directly with CHMP2 and CHMP4 for the disassembly of ESCRT-III complex in an ATP-dependent manner. During HIV-1 infection, the virus uses the ESCRT-III complex to mediate budding and exocytosis of viral proteins. VPS24 overexpression strongly hinders HIV-1 release.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

VPS24 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 242 amino acids (1-222 a.a) and having a molecular mass of 27.2kDa (Molecular weight on

Caution: Product has not been fully validated for medical applications. For research use only.

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SDS-PAGE will appear higher).VPS24 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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